

FIG.1

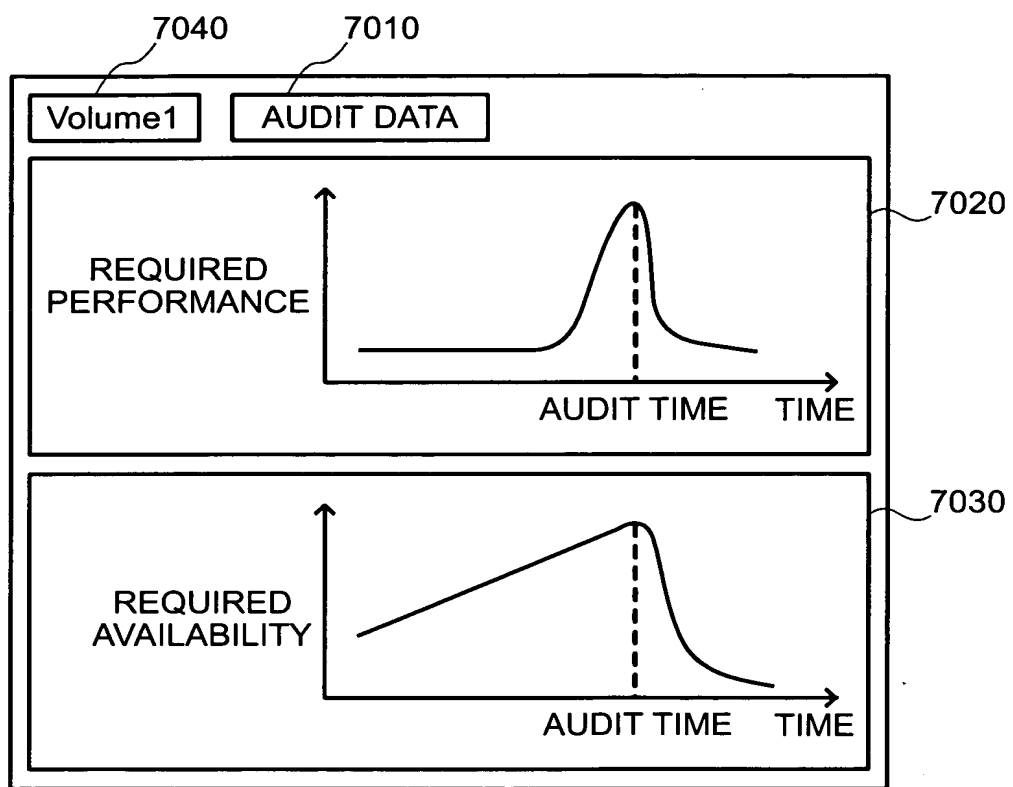


FIG.2

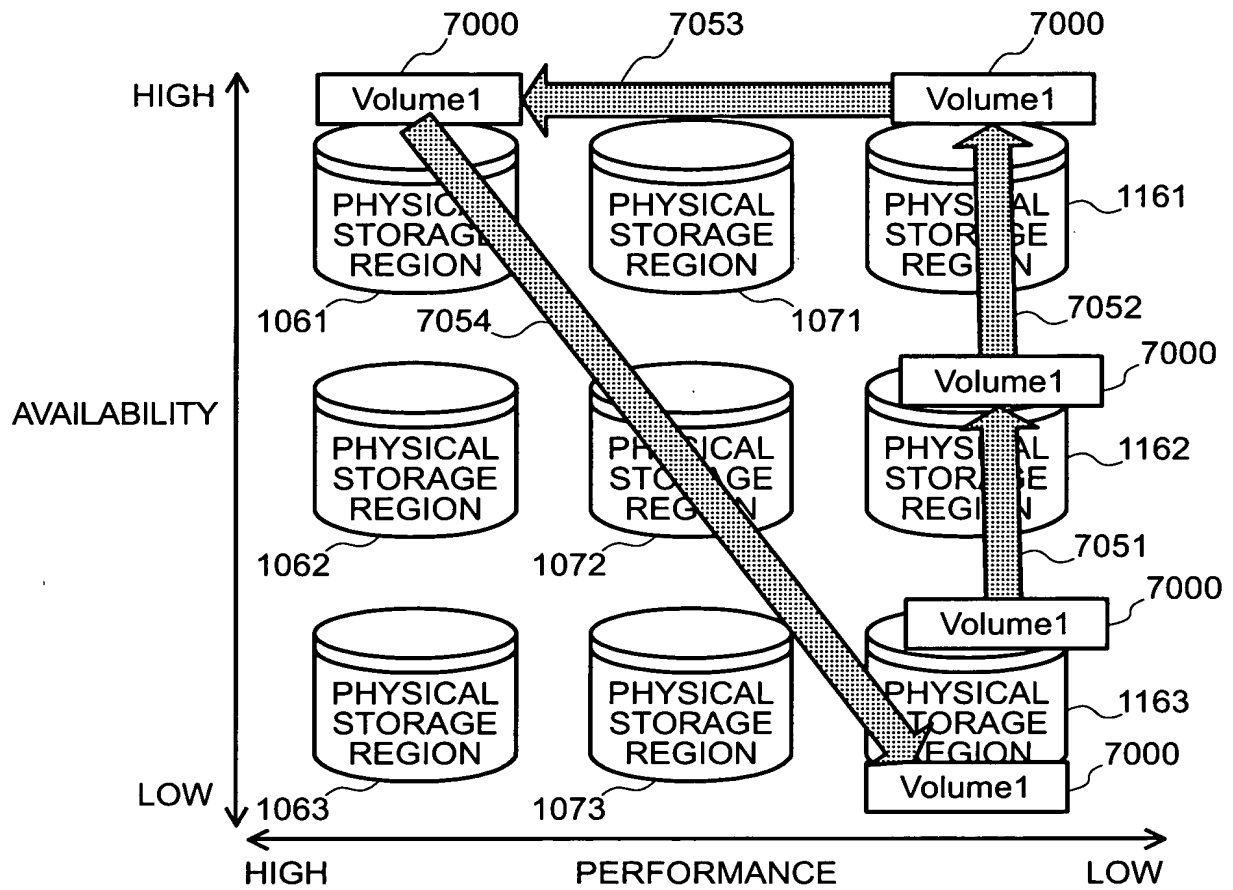


FIG.3

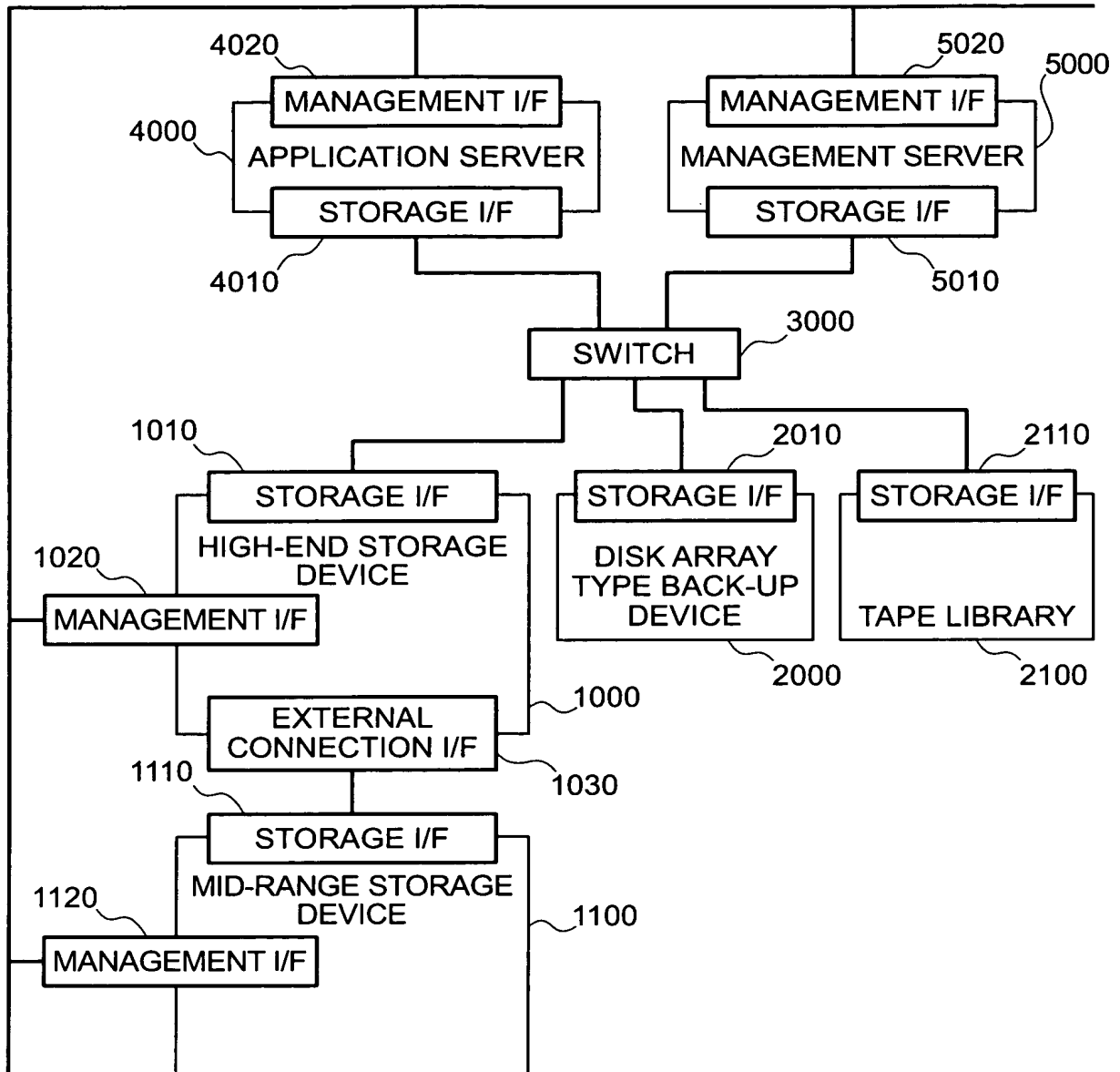


FIG.4

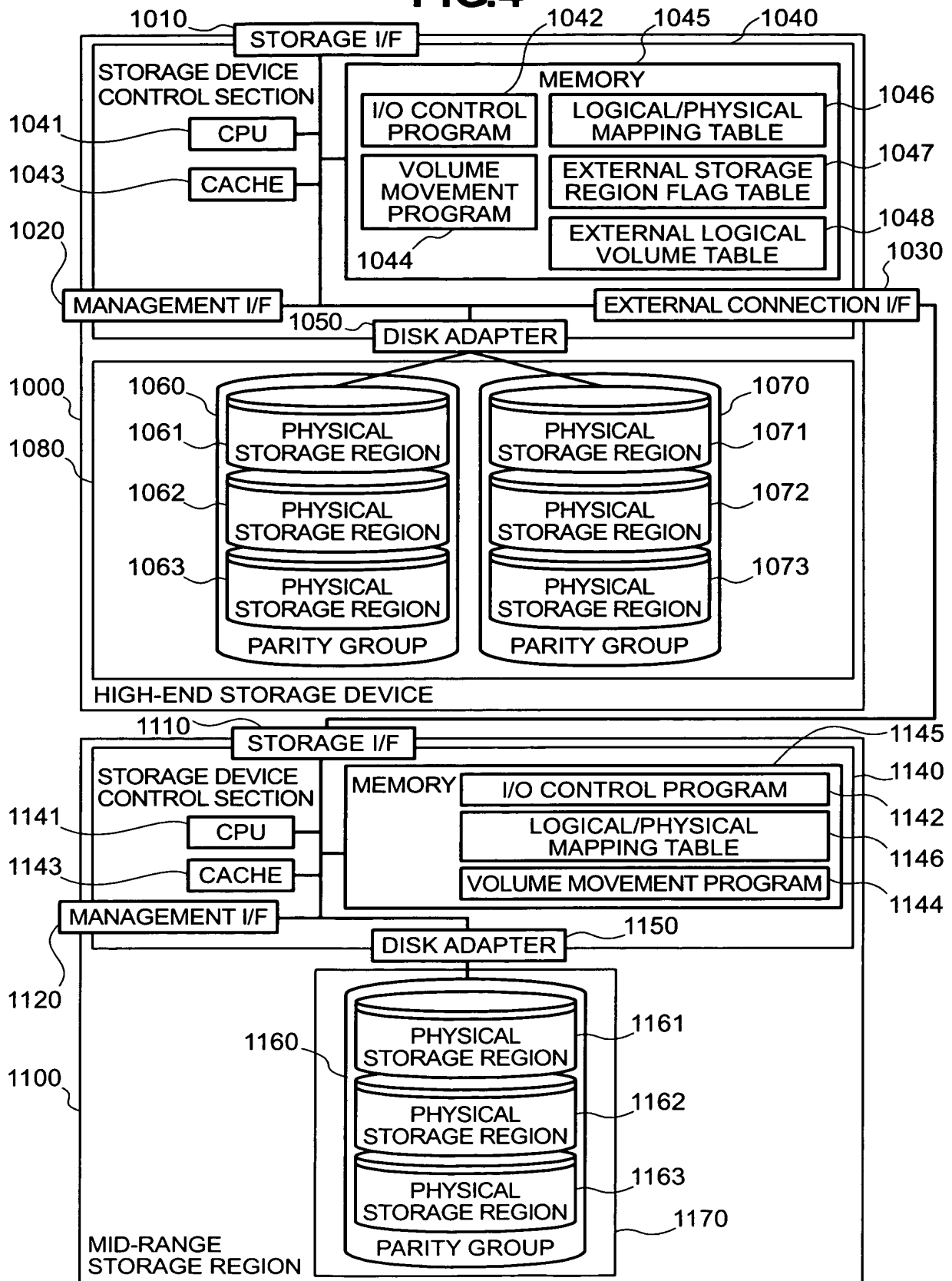


FIG.5A

LOGICAL VOLUME ID	PARITY GROUP ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
Volume1	1060	1061	0~1023
Volume2	1060	1063	0~1023
Volume4	1070	1072	0~1023
Volume6	1070	1072	1024~2047

FIG.5B

LOGICAL VOLUME ID	EXTERNAL STORAGE REGION FLAG
Volume1	0
Volume2	0
Volume3	1
Volume4	0
Volume5	1
Volume6	0

FIG.5C

LOGICAL VOLUME ID	STORAGE DEVICE ID	EXTERNAL LOGICAL VOLUME ID
Volume3	1100	Volume1
Volume5	1100	Volume2

FIG.5D

LOGICAL VOLUME ID	PARITY GROUP ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
Volume1	1160	1161	0~1023
Volume2	1160	1163	0~1023

FIG.6

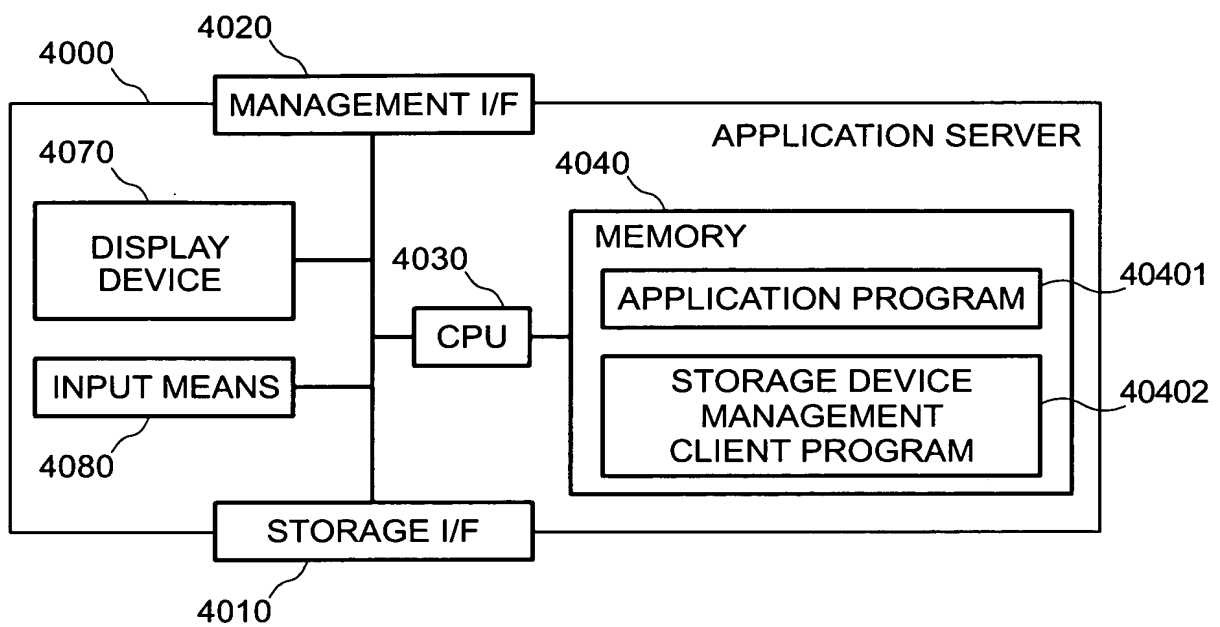


FIG.7

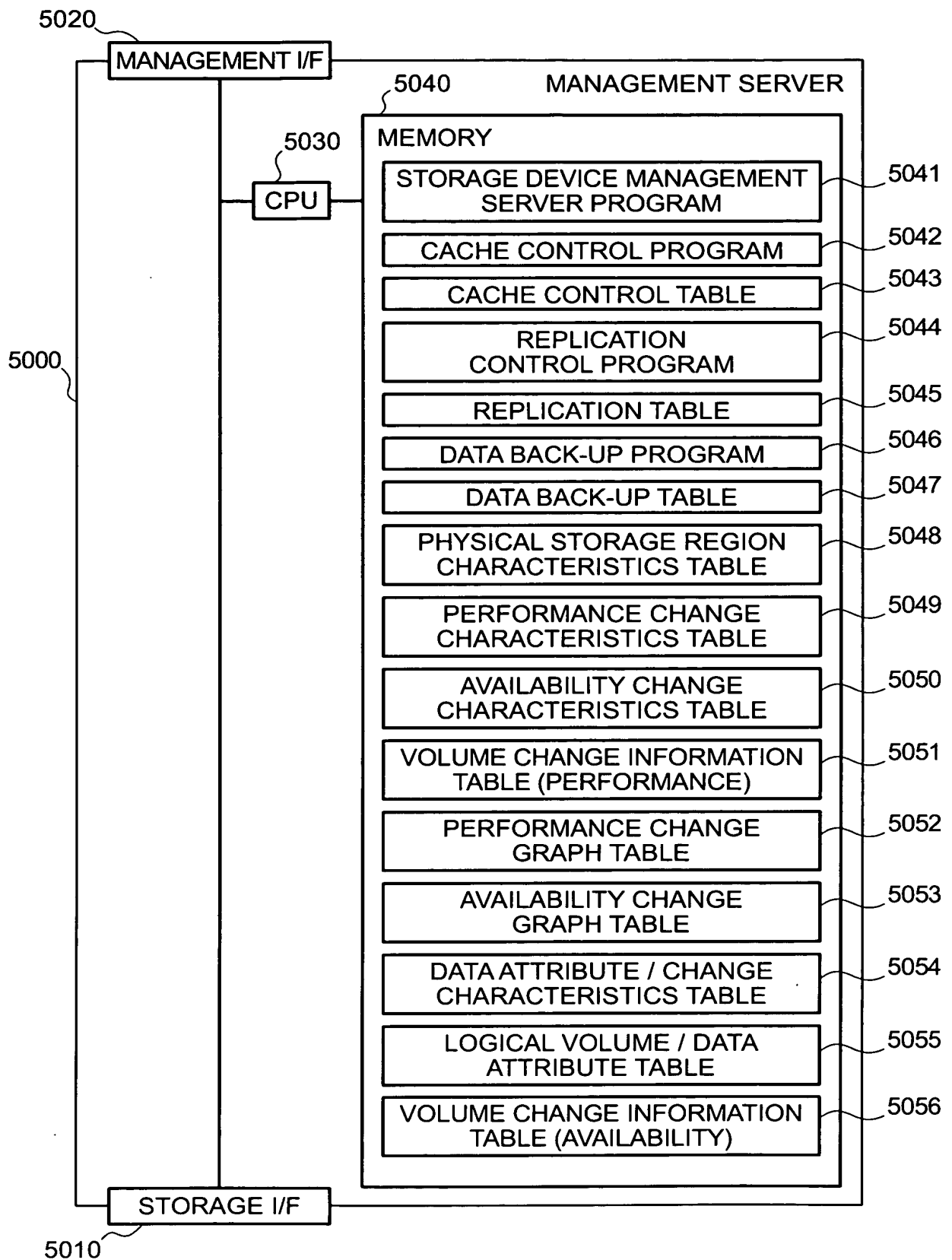


FIG.8

50471		50472		50473		50474
STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	BACK-UP DEVICE ID	BACK-UP DEVICE CHARACTERISTICS			
1000	1061	2000	HIGH-SPEED			
1000	1062	2000	HIGH-SPEED			
1000	1063	2100	LOW-SPEED			
1000	1071	2000	HIGH-SPEED			
1000	1072	2000	HIGH-SPEED			
1000	1073	2100	LOW-SPEED			
1100	1161	2000	HIGH-SPEED			
1100	1162	2000	HIGH-SPEED			
1100	1163	2100	LOW-SPEED			

FIG.9

50451		5045	50452	
STORAGE DEVICE ID		PHYSICAL STORAGE REGION ID		
1000		1061		
1000		1071		
1100		1161		

FIG.10

50431		5043	50432	
STORAGE DEVICE ID		PHYSICAL STORAGE REGION ID		
1000		1061		
1000		1062		
1000		1163		

FIG.11

50481 50482 50483 50484

STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	PERFORMANCE CHARACTERISTICS	AVAILABILITY CHARACTERISTICS
1000	1061	HIGH	HIGH
1000	1062	HIGH	MEDIUM
1000	1063	HIGH	LOW
1000	1071	MEDIUM	HIGH
1000	1072	MEDIUM	MEDIUM
1000	1073	MEDIUM	LOW
1100	1161	LOW	HIGH
1100	1162	LOW	MEDIUM
1100	1163	LOW	LOW

FIG.12A

PERFORMANCE CHANGE CHARACTERISTICS ID	ESTABLISHED DATE/TIME NAME	ESTABLISHED DATE/TIME	VOLUME CHANGE INFORMATION ID	PERFORMANCE CHANGE GRAPH ID
1	STORAGE CONDITIONS CHANGE DATE	2008/7/15	1	1
2	—	—	2	2
3	AUDIT DATE	2004/6/30	3	3
4	AUDIT DATE	2004/9/30	3	3

FIG.12B

VOLUME MOVEMENT INFORMATION (PERFORMANCE) ID	MOVEMENT NO.	MOVEMENT DATE/TIME	MOVEMENT DESTINATION PERFORMANCE CHARACTERISTICS
1	1	UPON CREATION	HIGH
	2	$(\text{ESTABLISHED DATE/TIME} - \text{CREATION DATE/TIME}) / 3$	MEDIUM
	3	$(\text{ESTABLISHED DATE/TIME} - \text{CREATION DATE/TIME}) \times 2/3$	LOW
2	1	UPON CREATION	MEDIUM
3	1	UPON CREATION	LOW
	2	ESTABLISHED DATE/TIME - 3	HIGH
	3	ESTABLISHED DATE/TIME + 1	LOW

FIG.13

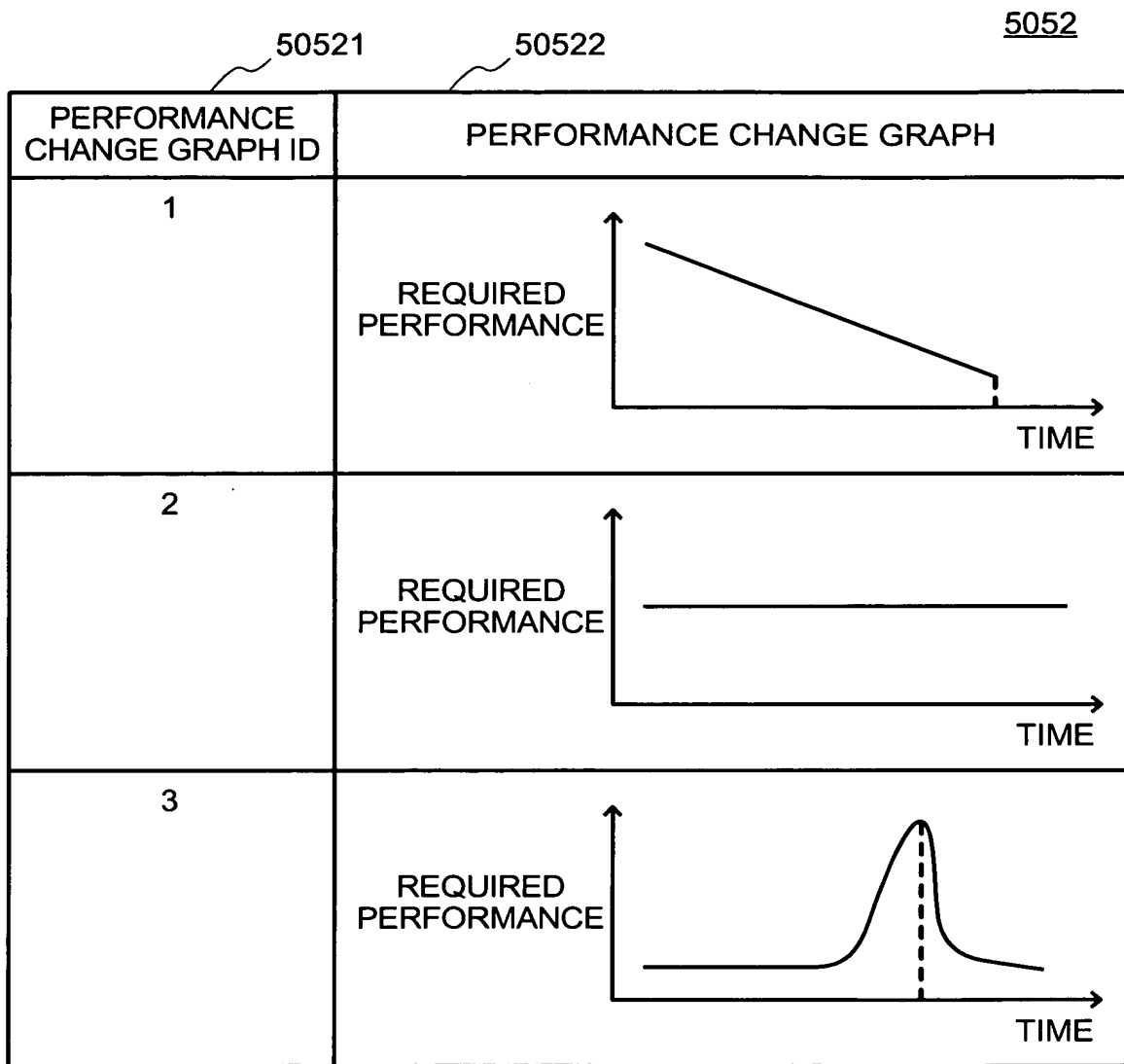


FIG.14

(A)

50501 AVAILABILITY CHANGE CHARACTERISTICS ID	50502 ESTABLISHED DATE NAME	50503 ESTABLISHED DATE/TIME	50504 VOLUME MOVEMENT INFORMATION ID	50505 AVAILABILITY CHANGE GRAPH ID
1	FILING CONDITIONS CHANGE DATE	2008/7/15	1	1
2	FILING CONDITIONS CHANGE DATE	2005/7/15	2	2
3	MONITORING DATE	2004/6/30	3	3
4	MONITORING DATE	2004/9/30	3	3

(B)

50515 VOLUME MOVEMENT INFORMATION (AVAILABILITY) ID	50516 MOVEMENT NO.	50517 MOVEMENT DATE/TIME	50518 MOVEMENT DESTINATION AVAILABILITY CHARACTERISTICS
1	1	UPON CREATION	HIGH
	2	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3	MEDIUM
	3	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3	LOW
2	1	UPON CREATION	HIGH
	2	ESTABLISHED DATE/TIME	LOW
3	1	UPON CREATION	LOW
	2	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3	MEDIUM
	3	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3	HIGH
	4	ESTABLISHED DATE/TIME + 1	LOW

FIG.15

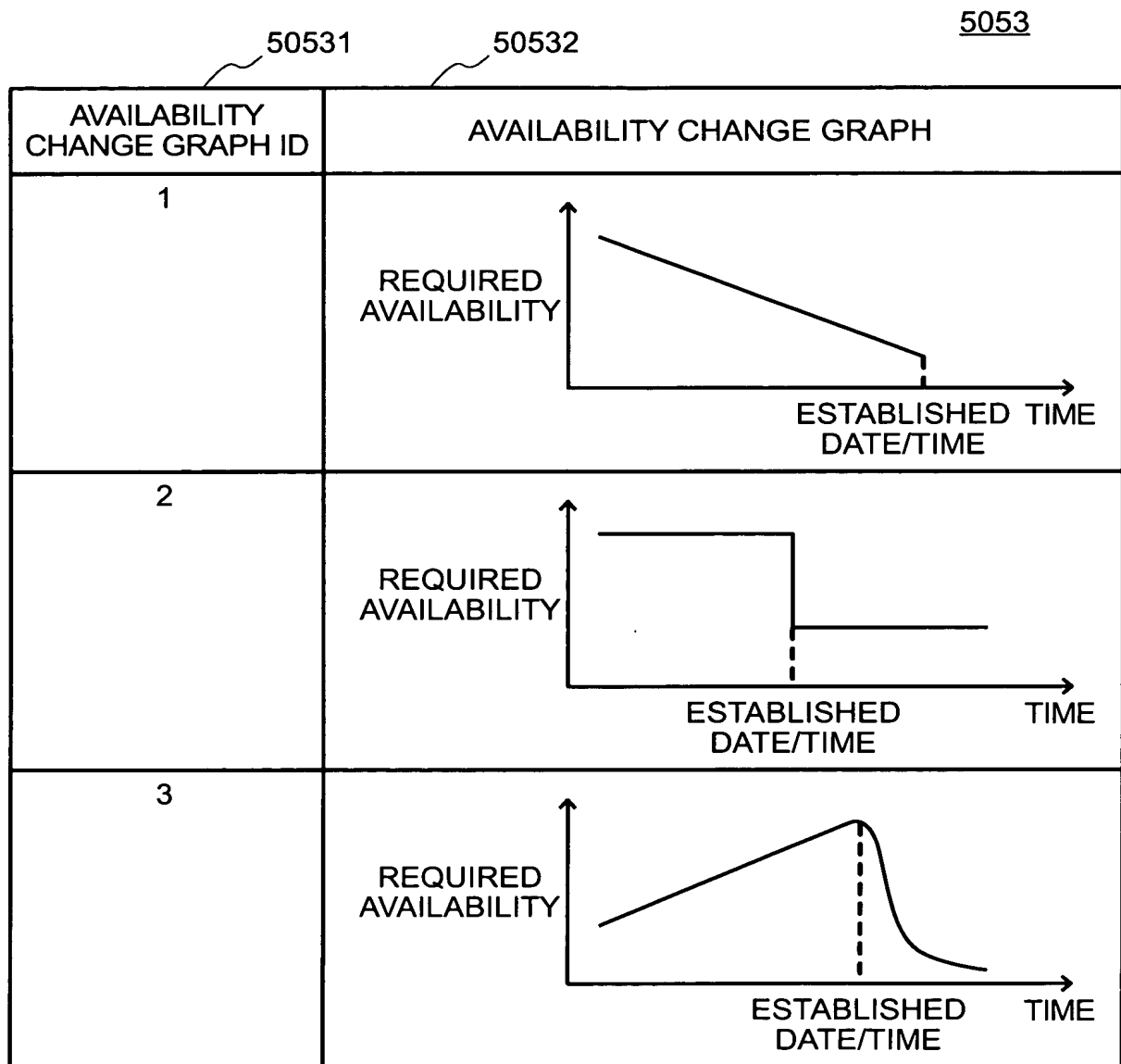


FIG.16

DATA ATTRIBUTE NAME	PERFORMANCE CHANGE CHARACTERISTICS ID	AVAILABILITY CHANGE CHARACTERISTICS ID
AUDIT DATA WITH ESTABLISHED DATE/TIME 6/30	3	3
MAIL LOG WITH ESTABLISHED DATE/TIME 7/15	1	2
AUDIT DATA WITH ESTABLISHED DATE /TIME 9/30	3	3

FIG.17

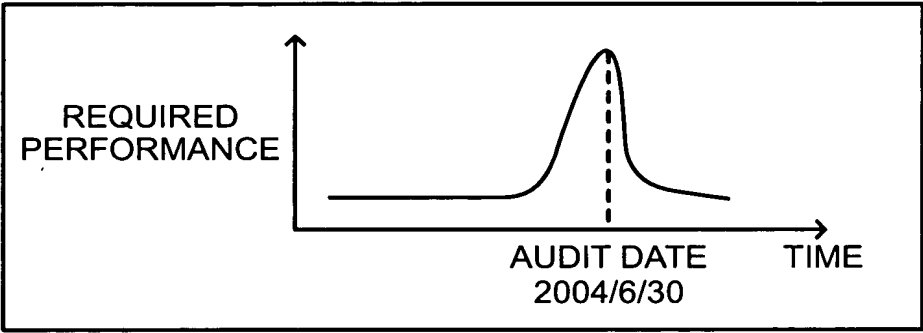
9000

LOGICAL VOLUME ALLOCATION SCREEN

LOGICAL VOLUME ID ▾ 9100

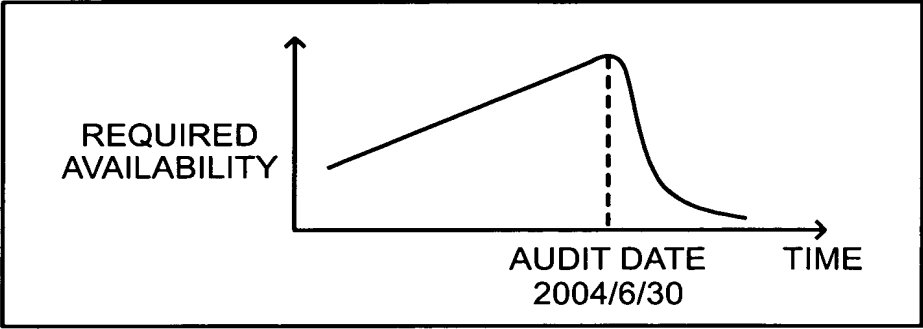
DATA ATTRIBUTE NAME ▾ 9200

PERFORMANCE CHANGE CHARACTERISTICS



The graph shows 'REQUIRED PERFORMANCE' on the y-axis and 'TIME' on the x-axis. A bell-shaped curve rises from a baseline, peaks, and then falls back to the baseline. A vertical dashed line marks the peak, labeled 'AUDIT DATE 2004/6/30'.

AVAILABILITY CHANGE CHARACTERISTICS



The graph shows 'REQUIRED AVAILABILITY' on the y-axis and 'TIME' on the x-axis. A curve rises linearly from a baseline, peaks, and then falls back to the baseline. A vertical dashed line marks the peak, labeled 'AUDIT DATE 2004/6/30'.

OK 9700

FIG.18

5055

50551

50552

LOGICAL VOLUME ID	DATAATTRIBUTE
Volume1	AUDIT DATA WITH ESTABLISHED DATE/TIME 6/30
Volume2	MAIL LOG WITH ESTABLISHED DATE/TIME 7/15

FIG.19

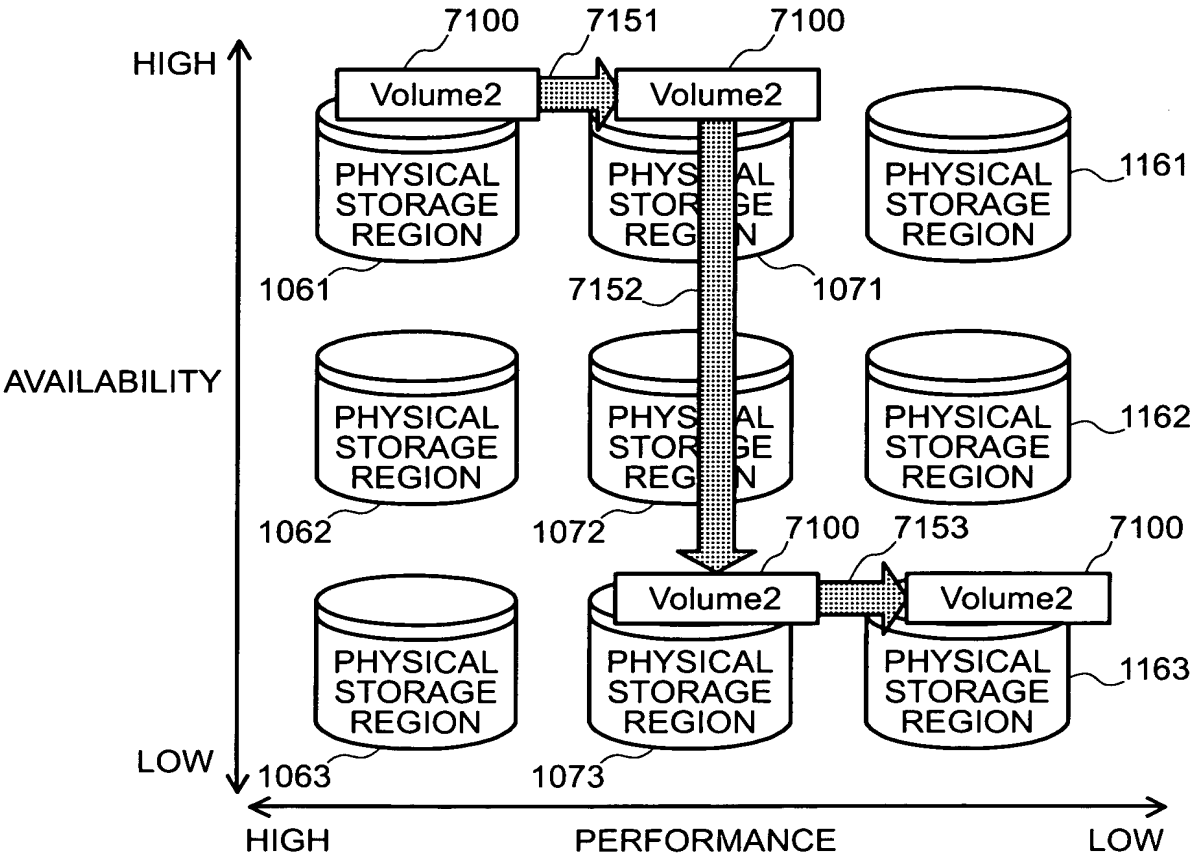


FIG.20

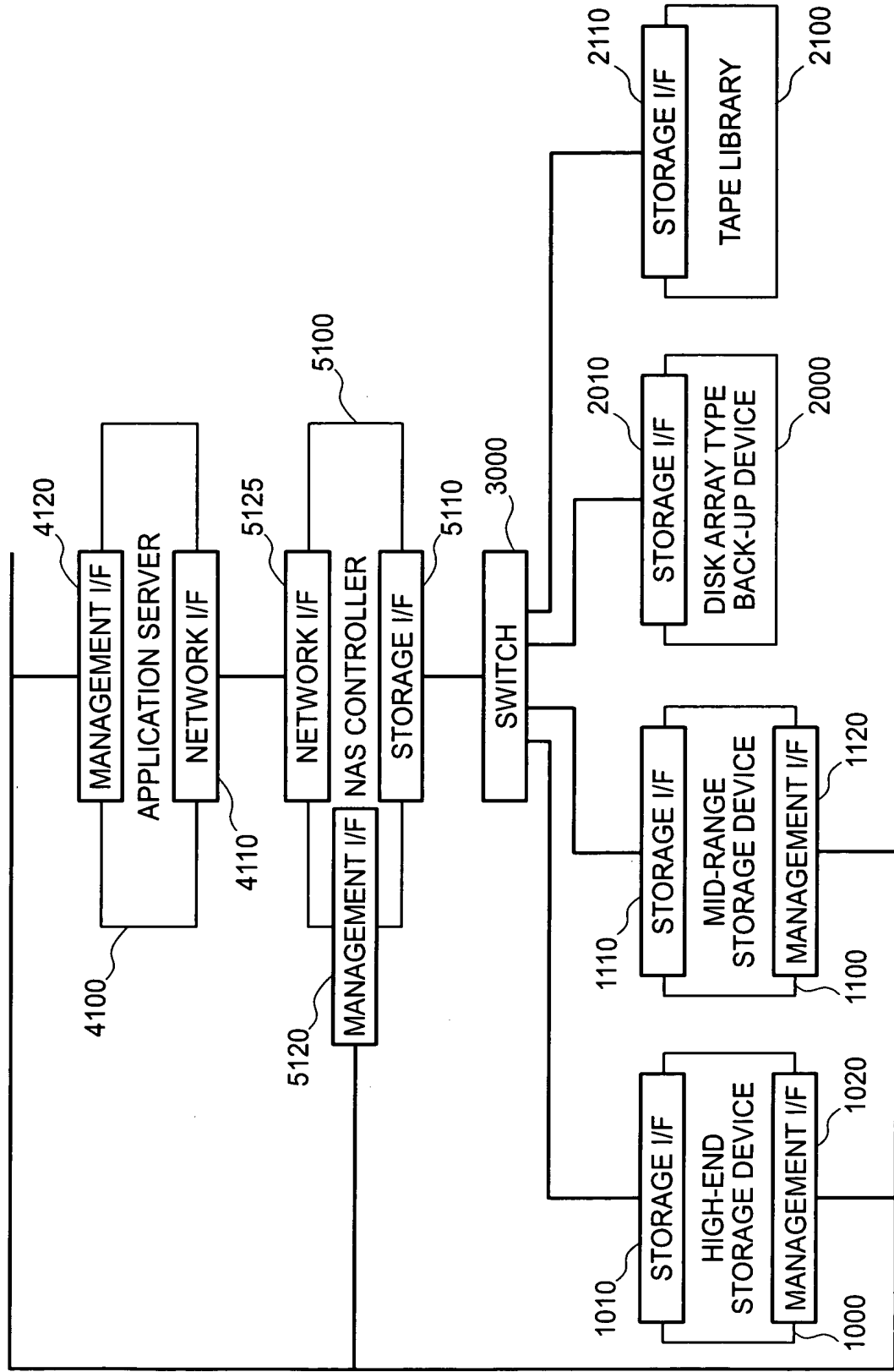


FIG.21

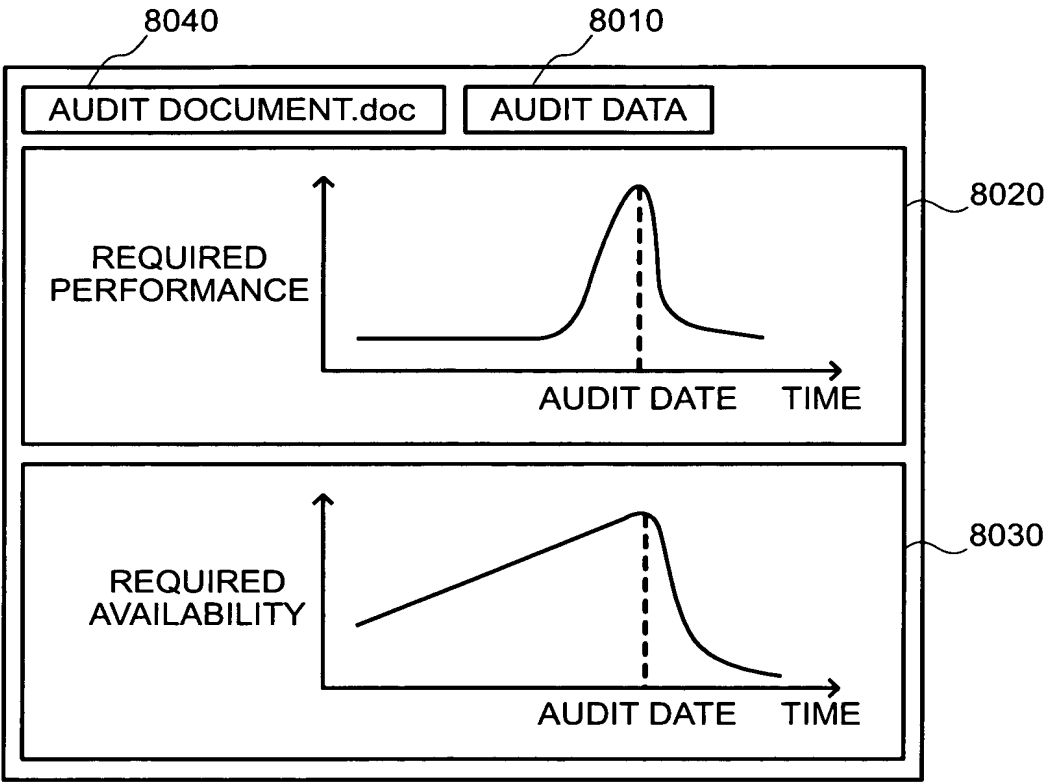


FIG.22

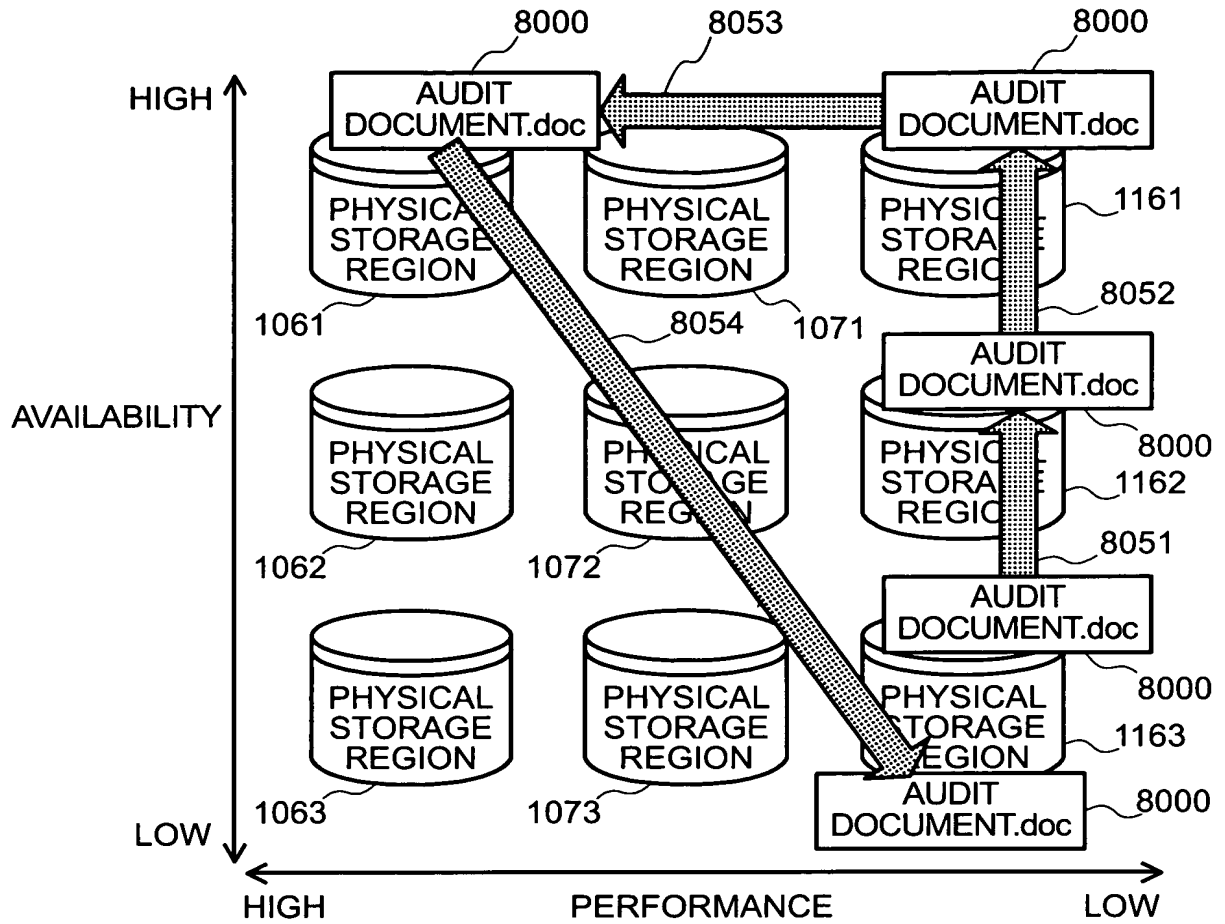


FIG.23

FILE NAME	STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
AUDIT DOCUMENT.doc	1100	1163	0~1023
maillog.mbx	1000	1061	0~1023

FIG.24

5057

LOGICAL VOLUME	DATA TYPE	CREATION DATE	ESTABLISHED DATE	MOVEMENT DATE/TIME	PHYSICAL STORAGE REGION	
					PERFORMANCE	AVAILABILITY
1	AUDIT	2004/1/1	2004/6/30	2004/1/1	LOW	LOW
				2004/2/29	LOW	MEDIUM
				2004/4/30	LOW	HIGH
				2004/6/27	HIGH	HIGH
				2004/7/1	LOW	LOW
2	MAIL LOG	2003/12/31	2006/12/31	2003/12/31	HIGH	HIGH
				2004/12/31	MEDIUM	HIGH
				2005/12/31	LOW	LOW
...						